

INTERNATIONAL SEARCH REPORT

International Application No

PCT/03/02915

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01B11/26 G01D5/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01B G01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 939 678 A (BECKWITH JR WALTER L) 3 July 1990 (1990-07-03) abstract; figure 5 column 3, line 19-56 column 4, line 3-15 column 5, line 57 -column 6, line 29 column 7, line 31 -column 8, line 40 column 14; table 1 ---	1-5, 9-11, 18-25
X	WO 02 04890 A (CHAPMAN MARK ADRIAN VINCENT ;RENISHAW PLC (GB); MCMURTRY DAVID ROB) 17 January 2002 (2002-01-17) abstract; figures 1,4 page 1, line 9-21 page 3, line 1-10 page 5, line 22-30 page 9, line 16 -page 10, line 11 --- -/--	1-5, 9-11, 18-25

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- * & * document member of the same patent family

Date of the actual completion of the international search

17 October 2003

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24/10/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 337 145 A (CHANEY RAYMOND J) 9 August 1994 (1994-08-09)</p> <p>abstract; figure 1 column 1, line 13 -column 2, line 64</p>	<p>1,9-11, 15,18, 22-25</p>
A	<p>US 5 798 828 A (CHURCHILL RUSSELL J ET AL) 25 August 1998 (1998-08-25)</p> <p>abstract; figure 2 column 2, line 56-67 column 3, line 43 -column 4, line 45 column 5, line 15-29 column 6, line 29-60 column 7, line 1 -column 8, line 55</p>	<p>1,3, 8-11,18, 22-25</p>
A	<p>EP 1 037 013 A (BUSCH DIETER & CO PRUEFTECH) 20 September 2000 (2000-09-20) the whole document</p>	<p>1,10,18, 22-25</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/02915

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4939678	A	03-07-1990	US 4884889 A AT 99410 T DE 3886767 D1 DE 3886767 T2 EP 0386115 A1 JP 2694986 B2 JP 3501052 T WO 8904945 A1	05-12-1989 15-01-1994 10-02-1994 11-05-1994 12-09-1990 24-12-1997 07-03-1991 01-06-1989
WO 0204890	A	17-01-2002	CN 1388891 T EP 1299693 A1 WO 0204890 A1 TW 514578 B US 2002122178 A1	01-01-2003 09-04-2003 17-01-2002 21-12-2002 05-09-2002
US 5337145	A	09-08-1994	NONE	
US 5798828	A	25-08-1998	NONE	
EP 1037013	A	20-09-2000	DE 10010834 A1 DE 50000221 D1 EP 1037013 A2 US 6515294 B1	05-10-2000 25-07-2002 20-09-2000 04-02-2003